

Product Texts

LNP FARADEx AS002 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 10% stainless steel fiber. Added features of this grade include: Electrically Conductive, EMI/RFI shielding.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.3	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.18	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.27	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	39	MPa	ISO 527
Yield strain	2.2	%	ISO 527
Stress at break	37	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Flexural modulus	2500	MPa	ISO 178
Flexural strength	66	MPa	ISO 178
Izod impact strength, +23°C, 4mm	20	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2990	MPa	ASTM D 638
Tensile Strength at Yield	42	MPa	ASTM D 638
Tensile Strength at Break	39	MPa	ASTM D 638
Elongation at Yield	2.2	%	ASTM D 638
Elongation at Break	8.6	%	ASTM D 638
Flexural Modulus	2810	MPa	ASTM D 790
Flexural Strength	75	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	286	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	78	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	91	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	97	°C	ASTM D 648
DTUL @ 264 psi	87	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100000	Ohm	ASTM D 257
Volume Resistivity	1000000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1110	kg/m ³	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1120	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	240 - 255	°C	-
Mold temperature	70 - 95	°C	-

LNP™ FARADEx™ Compound AS002

ABS-MEF(x)10

Saudi Basic Industries Corporation (SABIC)

Zone 1	210 - 220	°C	-
Zone 2	230 - 245	°C	-
Zone 3	255 - 265	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Features

EMI Attenuation/Shielding

Special Characteristics

Increased electrical conductivity

Regional Availability

North America, Europe, Asia Pacific